APPLIED MATHEMATICS AND COMPUTATION

VOLUME 74

A. M. ABD-ALLA
Transient Response of Inhomogeneous Transversely Isotropic Thermoelastic Cylinder to a Dynamic Input 1

S. CARL AND C. GROSSMAN
Smoothing and Monotone Iterations for Elliptic Differential Inclusions 15

MI-YOUNG KIM
Existence of Steady State Solutions to an Epidemic Model with Screening and Their Asymptotic Stability 37

EFFAT A. SAIED
On the Similarity Solutions of the Free Kramer Equation. I. 59

BO YU AND ZHENGHUA LIN
Homotopy Method for a Class of Nonconvex Brouwer Fixed-Point Problems 65

A.-G. M. IBRAHIM
On the Differentiability of Set-Valued Functions Defined on a Banach Space and Mean Value Theorem 79

A. M. EL-NAGGAR AND M. M. SALIEM
Wave Propagation in Layered Media under Initial Stresses 95

IOANNIS K. ARGYROS
Results on Newton Methods: Part I. A Unified Approach for Constructing Perturbed Newton-Like Methods in Banach Space and Their Applications 119

IOANNIS K. ARGYROS
Results on Newton Methods: Part II. Perturbed Newton-Like Methods in Generalized Banach Spaces 143

(Continued)

RICCARDO SACCO, DANILO ERRICOLO, AND EMILIO GATTI
A Perturbation Approach for Low Frequency Noise in Junction Field Effect Transistors 161

WERNER DÜCHTING, THOMAS GINSBERG, AND WALDEMAR ULMER
Computer Simulation Applied to Radiation Therapy in Cancer Research 191

MOHAMED BIN SULEIMAN, SAIMAN BAOK, AND GEORGE HALL
Varying the Componentwise Order of the Multistep Methods in Solving ODEs and Its Absolute Stability 209

EDWARD A. BILLARD
Stability of Dynamic Groups in Distributed Computing Systems 223

A. E. M. EL-MISIERY AND EL-SAYED M. EL-HORBATY
An Algorithm for Calculating Jones Polynomials 249

MORDUKH E. PRIMAK AND DANIEL B. SZYLD
A Projection Cutting Plane Algorithm for Convex Programming Problems 261

RUDOLF SCITOVSKI AND DRAGAN JUKIĆ
A Method for Solving the Parameter Identification Problem for Ordinary Differential Equations of the Second Order 273

G. HOSSEIN BEHFOROOZ
Consistency Relations of the Spline Functions Derived from Pascal-like Trangle 293

L. JÓDAR, E. NAVARRO AND M. V. FERRER
A Correction on the Stability of Implicit Higher Order Difference Systems 299

VOLUME CONTENTS